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APPLICANT : SEKISUI CHEM CO LTD;

INVENTOR : KAMIYA MASATAKE;

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C04B 18:08 , C04B 22:08 , C04B 14:10) C04B11:28

TITLE : CURABLE INORGANIC COMPOSITION

ABSTRACT : PURPOSE: To obtain a curable inorganic composition having high strength and excellent durability such as heat-resistance and weather resistance in a short time by compounding prescribed reactive inorganic powder with an alkali metal silicate and water.

CONSTITUTION: This curable inorganic composition is produced by compounding (A) 100 pts.wt. of reactive inorganic powder obtained by compounding (a) 20-99.5wt.% of one or more kinds of inorganic powder selected from fly ash containing ≥80wt.% of powder having particle diameter of ≤20μm, fly ash baked at 400-1000°C and containing ≥80wt.% of powder having particle diameter of ≤20μm and inorganic powder produced by applying mechanical energy of 0.1-30Kwh/kg to clay with (b) 0.5-80wt.% of one or more kinds of alumina powder selected from alumina-cement powder, γ-alumina powder and alumina powder produced by flame-spraying with (B) 1-300 pts.wt. of an alkali metal silicate and (C) 10-1,000 pts.wt. of water.

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(C) WPI / DERWENT

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AP - JP19940217015 19940912

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DC - L02

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PA - (SEKI) SEKISUI CHEM IND CO LTD

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XA - C1995-118705

XIC - C04B-007/26 ; C04B-007/32 ; C04B-012/04 ; C04B-028/26 ; C04B-111/28 ;
C04B-014/10 C04B-018/08 C04B-022/08 C04B-022/08 C0

AB - J07165455 Hardenable inorganic compsn. has 100 pts. wt. of a reactive
inorganic powder (having 20-99.5 wt.% of a fly ash inorganic powder,
and 0.5-80 wt.% of alumina powder e.g. alumina cement); 1-300 pts.wt.
of alkali metal silicate; and 10-1000 pts. wt. of water.

- ADVANTAGE - Enables reduced hardening time, and improved strength.

- (Dwg.0/0)

C - C04B28/26 C04B14/10 C04B18/08 C04B22/08 C04B22/08

IV - HARDEN INORGANIC COMPOSITION IMPROVE STRENGTH COMPRISE WATER ALKALI

METAL SILICATE REACT INORGANIC POWDER COMPOSE FLY ASH INORGANIC

POWDER

ALUMINA POWDER

JKW - HARDEN INORGANIC COMPOSITION IMPROVE STRENGTH COMPRISE WATER ALKALI

METAL SILICATE REACT INORGANIC POWDER COMPOSE FLY ASH INORGANIC

POWDER

ALUMINA POWDER

NC - '001

OPD - 1993-10-20

ORD - 1995-08-27

PAW - (SEKI) SEKISUI CHEM IND CO LTD

TI - Hardenable inorganic compsn. having improved strength - comprises
water, alkali metal silicate and reactive inorganic powder composed of
fly ash inorganic powder and alumina powder.

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